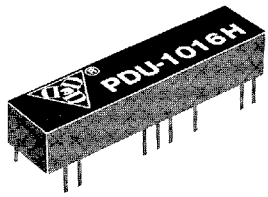
查询PDU1016H0.5供应商

Digitally Programmable Delay Units

SERIES: PDU-1016H (4-Bit) ECL Interfaced

data delay devices, inc.



Features:

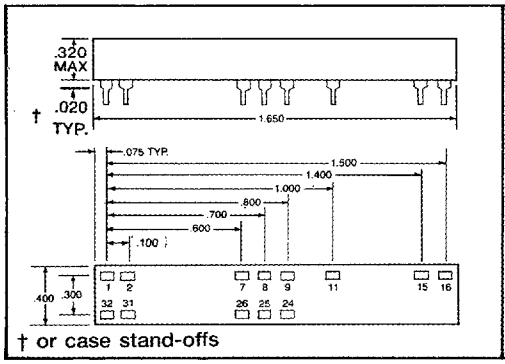
- Low propagation delay
- Input & output ECL buffered
- 4-BIT ECL programmable delay line
- Output same polarity of input
- Completely interfaced
- Compact & low profile

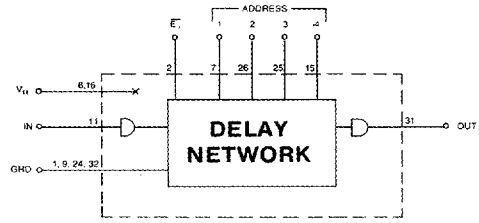
Specifications:

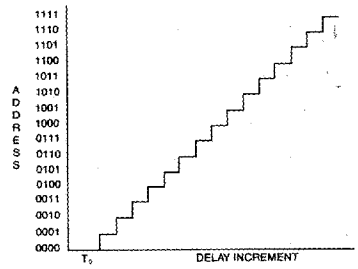
- Delay variation: Monotonic in one direction.
- Programmed delay tolerance: ± 5% or 1 ns whichever is greater.
- Inherent delay (T_{DO}): 5.5 ns ± 1 ns for PDU-1016H-1 thru -5. Greater for rest of part numbers.
- Propagation delay:
  Address to output (T_{SUA}) = 3.6 ns typ.
  Enable to output (T_{SUE}) = 1.7 ns typ.
- Power dissipation: 615 mw typ.
- Supply voltage: −5 Vdc ± 5%.
- Operating Temperature: 0-70°C.
- Temperature Coefficient: 100 PPM/°C.
- DC parameters: See ECL-10KH Logic Table on Page 6.

Test Conditions

- Input pulse-width: ≥150% of Max. delay.
- Input pulse spacing: ≥3 times of Max. delay.
- Input pulse voltage: ECL logic.
- Measurements taken @ T_A = 25°C, V_{EE} = −5V.







TRUTH TABLE

Enable ($\overline{E_0}$)	Address (Bit No.) 4	3	2	1	Delay Out
0	0	0	0	0	T_0
0	0	0	0	1	T_1
0	0	0	1	0	T_2
0	0	0	1	1	T_3
0	0	1	0	0	T_4
0	0	1	0	1	T_5
0	0	1	1	0	T_6
0	0	1	1	1	T_7
0	1	0	0	0	T_8
0	1	0	0	1	T_9
0	1	0	1	0	T_{10}
0	1	0	1	1	T_{11}
0	1	1	0	0	T_{12}
0	1	1	0	1	T_{13}
0	1	1	1	0	T_{14}
0	1	1	1	1	T_{15}
1	Ø	Ø	Ø	Ø	0

0 = Logic 0 1 = Logic 1 Ø = Don't care.
T_0 = Reference or inherent delay of unit.
$T_1 \longrightarrow T_{15}$ = Multiplier of incremental delay.

Part No.	Incremental Delay Per Step (ns)	Total Programmed Delay (ns)
PDU-1016H-.5	.5 ± .3	7.5
PDU-1016H-1	1 ± .5	15
PDU-1016H-2	2 ± .5	30
PDU-1016H-3	3 ± 1.0	45
PDU-1016H-4	4 ± 1.0	60
PDU-1016H-5	5 ± 1.0	75
PDU-1016H-6	6 ± 1.0	90
PDU-1016H-8	8 ± 1.0	120
PDU-1016H-10	10 ± 1.5	150
PDU-1016H-12	12 ± 1.5	180
PDU-1016H-15	15 ± 1.5	225
PDU-1016H-20	20 ± 2.0	300
PDU-1016H-25	25 ± 2.5	375
PDU-1016H-30	30 ± 3.0	450
PDU-1016H-35	35 ± 3.5	525
PDU-1016H-40	40 ± 4.0	600
PDU-1016H-45	45 ± 4.5	675
PDU-1016H-50	50 ± 5.0	750
PDU-1016H-60	60 ± 6.0	900
PDU-1016H-80	80 ± 8.0	1,200
PDU-1016H-100	100 ± 10.0	1,500

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